

Claim Amendments

Please amend the claims as set forth in the following complete listing of all claims in this application.

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1 Claim 1(previously presented): A door lock apparatus, comprising the
2 combination of:
3 a trim plate securable to the outside of a door;
4 a cylindrical lock apparatus including a latchbolt, a lock body having a
5 retractor for said latchbolt, a spindle inwardly extending from said lock body
6 and coupled to said retractor for unlatching said latchbolt upon rotation of said
7 spindle, and a handle securable to said spindle for rotating said spindle;
8 a cylinder lock including a housing and a cylinder actuable for rotation in
9 said housing, and a cam secured to said cylinder and rotatable therewith;
10 said lock body with said spindle extending therefrom secured to said trim
11 plate independently of the door and inwardly of said trim plate; and
12 said housing of said cylinder lock secured to said trim plate
13 independently of the door and outwardly extending from said lock body, and
14 with said cam coupled to said retractor for unlatching said latchbolt upon
15 rotation of said cylinder.

1 Claim 2 (original): The apparatus according to Claim 1, further including:
2 a key insertable in said cylinder lock and rotatable for rotating said
3 cylinder.

1 Claim 3 (original): The apparatus according to Claim 2, wherein:

2 said cylinder lock is a mortise lock cylinder.

1 Claim 4 (original): The apparatus according to Claim 1, wherein:

2 said trim plate includes a pull handle for permitting the door to be pulled
3 open when said plate is secured to the door and with said retractor unlatching
4 said latchbolt.

1 Claim 5 (original): The apparatus according to Claim 1, wherein:

2 said trim plate is a pull plate.

1 Claim 6 (original): The apparatus according to Claim 1, wherein:

2 said trim plate includes a door engaging section securable to the door, a
3 pull handle extending from said door engaging section, and a top edge and a
4 bottom edge tapering toward said pull handle from said door engaging section.

1 Claim 7 (currently amended): The apparatus according to Claim 2,

2 wherein

3 said trim plate includes an opening;

4 and further including

5 an attachment plate secured to said trim plate independently of the door,

6 said attachment plate including an opening in registration with said opening in

7 said trim plate, said openings permitting insertion of said cylinder lock therein,

8 said attachment plate adapted to releasably secure said cylinder lock thereto
9 when said cylinder lock is inserted in said openings.

1 Claim 8 (previously presented) The apparatus according to Claim 7, wherein:

2 said opening in said attachment plate and said opening in said trim plate
3 are configured for facilitating outward withdrawal of said cylinder lock with said
4 key inserted in said cylinder lock.

1 Claim 9 (currently amended): ~~The apparatus according to Claim 3, wherein A~~
2 door lock apparatus, comprising the combination of:

3 a trim plate securable to the outside of a door;

4 a cylindrical lock assembly secured to said trim plate inwardly thereof
5 when said plate is secured to the door, said cylindrical lock assembly including a
6 latchbolt, a lock body having a retractor for said latchbolt, a spindle inwardly
7 extending from said lock body and coupled to said retractor for unlatching said
8 latchbolt upon rotation of said spindle, and a handle secured to said spindle for
9 rotating said spindle;

10 a cylinder lock including a housing and a cylinder actuable for rotation in
11 said housing, said cylinder lock secured to said trim plate and outwardly
12 extending from said lock body;

13 a cam secured to said cylinder and rotatable therewith, said cam coupled
14 to said retractor for unlatching said latchbolt upon rotation of said cylinder;

15 a key insertable in said cylinder lock and rotatable for rotating said
16 cylinder;

17 said trim plate includes an opening with at least two spaced radial
18 protrusions into said opening;

19 said cylinder lock is a mortise lock cylinder ~~includes~~ including at least
20 two longitudinal grooves therealong in registration with said at least two
21 protrusions for rotationally orienting said mortise lock cylinder on said trim
22 plate; and

23 said rotatable cam includes an arcuate member having cam ends for
24 operatively cooperating with said retractor upon rotation of said cam by said key
25 inserted in said mortise lock cylinder, said arcuate member including peripheral
26 notches at least one of which is alignable with a one of said grooves and a one
27 of said protrusions when said cam is rotated by said key inserted in said mortise
28 lock cylinder.

1 Claim 10 (original): The apparatus according to Claim 9, wherein:

2 said opening in said trim plate further includes a cutout adjacent at least
3 one of said protrusions configured for permitting a one of said cam ends to pass
4 through said cutout when said cam is rotated by said key inserted in said mortise
5 lock cylinder.

1 Claim 11 (original): The apparatus according to Claim 10, further including:

2 an attachment plate secured to said trim plate, said attachment plate
3 including an opening configured with at least one cutout similar to said at least
4 one cutout in said trim plate, said openings including said cutouts in registration,

5 said attachment plate adapted to releasably secure said mortise lock cylinder
6 thereto when said mortise lock cylinder is inserted in said openings.

1 Claim 12 (original): The apparatus according to Claim 11, wherein:

2 said opening in said attachment plate further includes an arcuate cutout
3 for facilitating entry of said arcuate member into engageable position with said
4 retractor.

5 Claim 13 (currently amended) ~~The apparatus according to Claim 1, further~~
6 ~~including~~ A door lock apparatus, comprising the combination of:

7 a trim plate securable to the outside of a door;

8 a cylindrical lock apparatus including a latchbolt, a lock body having a
9 retractor for said latchbolt, a spindle inwardly extending from said lock body
10 and coupled to said retractor for unlatching said latchbolt upon rotation of said
11 spindle, and a handle securable to said spindle for rotating said spindle;

12 a cylinder lock including a housing and a cylinder actuable for rotation in
13 said housing, and a cam secured to said cylinder and rotatable therewith;

14 said lock body with said spindle extending therefrom secured to said trim
15 plate independently of the door and inwardly of said trim plate;

16 said housing of said cylinder lock secured to said trim plate
17 independently of the door and outwardly extending from said lock body, and
18 with said cam coupled to said retractor for unlatching said latchbolt upon
19 rotation of said cylinder; and

20 a hold-back apparatus in said cylindrical lock apparatus including a lock
21 in said handle for locking said spindle when said spindle is in a rotated position
22 unlatching said latchbolt.

1 Claim 14 (original): The apparatus according to Claim 13, wherein:

2 said handle is a lever handle and is in a rotated position when said
3 spindle is locked with said latchbolt unlatched.

1 Claim 15 (currently amended): ~~The apparatus according to Claim 1,~~ A door lock
2 apparatus, comprising the combination of:

3 a trim plate securable to the outside of a door;

4 a cylindrical lock apparatus including a latchbolt, a lock body having a
5 retractor for said latchbolt, a spindle inwardly extending from said lock body
6 and coupled to said retractor for unlatching said latchbolt upon rotation of said
7 spindle, and a handle securable to said spindle for rotating said spindle;

8 a cylinder lock including a housing and a cylinder actuatable for rotation in
9 said housing, and a cam secured to said cylinder and rotatable therewith;

10 said lock body with said spindle extending therefrom secured to said trim
11 plate independently of the door and inwardly of said trim plate;

12 said housing of said cylinder lock secured to said trim plate
13 independently of the door and outwardly extending from said lock body, and
14 with said cam coupled to said retractor for unlatching said latchbolt upon
15 rotation of said cylinder;

16 wherein

17 said lock body includes a chassis plate rotationally supporting said
18 spindle and including a radial first notch;
19 said spindle includes a second notch in radial alignment with said first
20 notch when said spindle is in a rotated position unlatching said latchbolt;
21 ~~and further including~~
22 a radially extending member carried by said spindle and captured by said
23 first notch; and
24 a lock in said handle coupled to said member for moving said member
25 longitudinally along said notches, when said notches are radially aligned,
26 between a first longitudinal position captured by said second notch and a second
27 longitudinal position not captured by said second notch.

1 Claim 16 (original): The apparatus according to Claim 15, wherein:

2 said handle is a lever handle and is in a rotated position when said
3 latchbolt is unlatched.

1 Claim 17 (previously presented) The apparatus according to Claim 15,

2 wherein

3 said lock in said handle includes a bored lock cylinder having a rotatable
4 tail piece;

5 and further including

6 a rotational-to-translational motion converter carried by said spindle for
7 converting rotation of said tail piece to longitudinal movement of said member.

1 Claim 18 (original): The apparatus according to Claim 17, further including:

2 a key insertable in said bored lock cylinder and rotatable for rotating said
3 tail piece.

1 Claim 19 (previously presented): A door lock apparatus, comprising the
2 combination of:

3 a door trim securable to a face of a door;

4 a cylindrical lock apparatus including a latchbolt, a lock body having a
5 retractor for said latchbolt, a spindle extending from a first side of said lock
6 body and coupled to said retractor for unlatching said latchbolt upon rotation of
7 said spindle, and a handle securable to said spindle for rotating said spindle;

8 a cylinder lock including a housing and a cylinder actuable for rotation in
9 said housing, said cylinder lock extending from a second side of said lock body
10 opposite said first side;

11 a cam secured to said cylinder and rotatable therewith, said cam coupled
12 to said retractor for unlatching said latchbolt upon rotation of said cylinder; and

13 said cylinder lock secured to said door trim independently of the door
14 with said cylinder rotatably actuable from one side of said door trim, and said
15 lock body secured to said door trim independently of the door with said spindle
16 rotatable from another side of said door trim opposite said one side.

1 Claim 20 (original): The apparatus according to Claim 19, further including
2 a key insertable in said cylinder lock and rotatable for rotating said
3 cylinder.

1 Claim 21 (original): The apparatus according to Claim 20, wherein:
2 said cylinder lock is a mortise lock cylinder.

Claim 22 (canceled)

1 Claim 23 (previously presented): The apparatus according to Claim 19,
2 wherein:
3 said door trim is a pull plate.

1 Claim 24 (original): The apparatus according to Claim 23, wherein:
2 said pull plate includes a door engaging section securable to the door; a
3 pull handle extending from said door engaging section, and a top edge and a
4 bottom edge tapering toward said pull handle from said door engaging section.

1 Claim 25 (currently amended): ~~The apparatus according to Claim 19, further~~
2 ~~including~~ A door lock apparatus, comprising the combination of:

3 a door trim securable to a face of a door;

4 a cylindrical lock apparatus including a latchbolt, a lock body having a
5 retractor for said latchbolt, a spindle extending from a first side of said lock
6 body and coupled to said retractor for unlatching said latchbolt upon rotation of
7 said spindle, and a handle securable to said spindle for rotating said spindle;

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8 a cylinder lock including a housing and a cylinder actuatable for rotation in
9 said housing, said cylinder lock extending from a second side of said lock body
10 opposite said first side;

11 a cam secured to said cylinder and rotatable therewith, said cam coupled
12 to said retractor for unlatching said latchbolt upon rotation of said cylinder;

13 said cylinder lock secured to said door trim independently of the door
14 with said cylinder rotatable actuatable from one side of said door trim, and said
15 lock body secured to said door trim independently of the door with said spindle
16 rotatable from another side of said door trim opposite said one side; and

17 a hold-back apparatus in said cylindrical lock apparatus including a lock
18 in said handle for locking said spindle when said spindle is in a rotated position
19 unlatching said latchbolt.

1 Claim 26 (original): The apparatus according to Claim 25, wherein:

2 said handle is a lever handle and is in a rotated position when said
3 spindle is locked with said latchbolt unlatched.

1 Claim 27 (currently amended): ~~The apparatus according to Claim 19,~~ A door
2 lock apparatus, comprising the combination of:

3 a door trim securable to a face of a door;

4 a cylindrical lock apparatus including a latchbolt, a lock body having a
5 retractor for said latchbolt, a spindle extending from a first side of said lock
6 body and coupled to said retractor for unlatching said latchbolt upon rotation of
7 said spindle, and a handle securable to said spindle for rotating said spindle;

8 a cylinder lock including a housing and a cylinder actuatable for rotation in
9 said housing, said cylinder lock extending from a second side of said lock body
10 opposite said first side;

11 a cam secured to said cylinder and rotatable therewith, said cam coupled
12 to said retractor for unlatching said latchbolt upon rotation of said cylinder;

13 said cylinder lock secured to said door trim independently of the door
14 with said cylinder rotatably actuatable from one side of said door trim, and said
15 lock body secured to said door trim independently of the door with said spindle
16 rotatable from another side of said door trim opposite said one side;

17 wherein

18 said lock body includes a chassis plate rotationally supporting said
19 spindle and including a radial first notch;

20 said spindle includes a second notch in radial alignment with said first
21 notch when said spindle is in a rotated position unlatching said latchbolt;

22 ~~and further including~~

23 a radially extending member carried by said spindle and captured by said
24 first notch; and

25 a lock in said handle coupled to said member for moving said member
26 longitudinally along said notches, when said notches are radially aligned,
27 between a first longitudinal position captured by said second notch and a second
28 longitudinal position not captured by said second notch.

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1 Claim 28 (original): The apparatus according to Claim 27 wherein:

2 said handle is a lever handle and is in a rotated position when said
3 latchbolt is unlatched.

1 Claim 29 (previously presented): The apparatus according to Claim 27,

2 wherein

3 said lock in said handle includes a bored lock cylinder having a rotatable
4 tail piece;

5 and further including

6 a rotational-to-translational motion converter carried by said spindle for
7 converting rotation of said tail piece to longitudinal movement of said member.

1 Claim 30 (previously presented): The apparatus according to Claim 29, further

2 including:

3 a key insertable in said bored lock cylinder and rotatable for rotating said
4 tail piece.

1 Claim 31 (currently amended): The apparatus according to Claim 19,

2 wherein

3 said door trim includes an opening;

4 and further including

5 an attachment plate secured to said door trim independently of the door,
6 said attachment plate including an opening in registration with said opening in
7 said door trim, said openings permitting insertion of said cylinder lock therein,

8 said attachment plate adapted to releasably secure said cylinder lock thereto
9 when said cylinder lock is inserted in said openings.

1 Claim 32 (original): The apparatus according to Claim 31, wherein:

2 said opening in said attachment plate and said opening in said door trim
3 are configured for facilitating outward withdrawal of said cylinder lock upon
4 rotation of said cylinder.

1 Claim 33 (currently amended): A cylindrical lock apparatus for a door,
2 comprising the combination of:

3 a latchbolt for latching the door, a lock body having a retractor for said
4 latchbolt, a spindle extending from a first side of said lock body and coupled to
5 said retractor for unlatching said latchbolt upon rotation of said spindle, a lever
6 handle secured to said spindle for rotating said spindle to unlatch said latchbolt
7 upon rotation of said lever handle to an angular disposition, and a lock in said
8 handle for selectively locking said lever handle in said angular disposition, said
9 angular disposition of said lever handle being a visual indicator that said
10 latchbolt is locked in an unlatched position.

Claim 34 (canceled)

1 Claim 35 (original): A cylindrical lock apparatus for a door, comprising the
2 combination of:
3 a latchbolt, a lock body having a retractor for said latchbolt, a spindle
4 coupled to said retractor for unlatching said latchbolt upon rotation of said
5 spindle, and a handle secured to said spindle for rotating said spindle;
6 a chassis plate rotationally supporting said spindle with respect to said
7 lock body, said chassis plate including a radial first notch;
8 a second notch in said spindle in radial alignment with said first notch
9 when said spindle is in a rotated position unlatching said latchbolt;
10 a radially extending member carried by said spindle and captured by said
11 first notch; and
12 a lock in said handle coupled to said member for moving said member
13 longitudinally along said notches, when said notches are radially aligned,
14 between a first longitudinal position captured by said second notch and a second
15 longitudinal position not captured by said second notch.

1 Claim 36 (previously presented) The apparatus according to Claim 35, wherein
2 said handle is a lever handle angularly disposed when said member is
3 captured by said second notch, the angular disposition of said lever handle being
4 a visual indicator that said latchbolt is unlatched.

1 Claim 37 (previously presented): The apparatus according to Claim 36,
2 wherein

C/ 3 said lock in said lever handle includes a bored lock cylinder having a
4 rotatable tail piece;

5 and further including

6 a rotational-to-translational motion converter carried by said spindle for
7 converting rotation of said tail piece to longitudinal movement of said member.

1 Claim 38 (original): The apparatus according to Claim 37, further including:

2 a key insertable in said bored lock cylinder and rotatable for rotating said
3 tail piece.

1 Claim 39 (previously presented): The apparatus according to Claim 7,

2 wherein

3 said attachment plate secures said lock body to said trim plate.

1 Claim 40 (previously presented) The apparatus according to Claim 39, wherein:

2 said opening in said attachment plate and said opening in said trim plate
3 are configured for facilitating outward withdrawal of said cylinder lock with said
4 key inserted in said cylinder lock.

1 Claim 41 (previously presented) The apparatus according to Claim 13, wherein:

2 said lock in said handle is key actuatable for locking and unlocking said
3 spindle when said spindle is in said rotated position unlatching said latchbolt.

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1 Claim 42 (previously presented): The apparatus according to Claim 25, wherein
2 said lock in said handle is key actuatable for locking and unlocking said
3 spindle when said spindle is in said rotated position unlatching said latchbolt.

1 Claim 43 (previously presented): The apparatus according to Claim 33, wherein
2 said lock in said handle is key actuatable for locking said lever handle in
3 said angular position when said latchbolt is unlatched.

1 Claim 44 (previously presented): The apparatus according to Claim 1,
2 including
3 an attachment plate secured to said trim plate independently of the door;
4 and wherein
5 said lock body and said housing of said cylinder lock are secured to said
6 attachment plate independently of the door.

1 Claim 45 (previously presented): The apparatus according to Claim 44,
2 wherein:
3 said trim plate includes an opening;
4 said attachment plate includes an opening in registration with said
5 opening in said trim plate; and
6 said housing of said cylinder lock is removably secured to said
7 attachment plate through said openings.

1 Claim 46 (withdrawn): A method of installing a door lock apparatus to a door,
2 comprising:
3 providing a trim plate securable to the outside of the door;
4 providing a cylindrical lock apparatus including a latchbolt, a lock body
5 having a retractor for said latchbolt, a spindle inwardly extending from said lock
6 body and coupled to said retractor for unlatching said latchbolt upon rotation of
7 said spindle when said retractor is coupled to said latchbolt, and a handle
8 removably securable to said spindle for rotating said spindle when secured;
9 providing a cylinder lock including a housing and a cylinder actuable for
10 rotation in said housing, and a cam secured to said cylinder and rotatable
11 therewith;
12 securing said lock body with said spindle extending therefrom and said
13 cylinder lock to said trim plate with said cam coupled to said retractor for
14 unlatching said latchbolt upon rotation of said cylinder when said retractor is
15 coupled to said latchbolt;
16 installing said latchbolt to the door;
17 installing the secured-together trim plate, lock body and cylinder lock to
18 the door by securing said trim plate to the outside of the door with said retractor
19 coupled to said latchbolt; and
20 securing said handle to said spindle.

1 Claim 47 (withdrawn): The method according to Claim 46, wherein:
2 in the trim plate providing step, said trim plate is a pull plate.

1 Claim 48 (withdrawn): The method according to Claim 46, wherein:

2 in said trim plate providing step, providing an opening in said trim plate,
3 and securing an attachment plate to said trim plate, said attachment plate
4 including an opening in registration with said opening in said trim plate; and
5 in the lock body and cylinder lock securing step, releasably securing said
6 cylinder lock to said attachment plate through said openings and securing said
7 lock body to said attachment plate.

1 Claim 49 (withdrawn): The method according to Claim 46, wherein:

2 in the cylindrical lock apparatus providing step, providing a lock in said
3 handle for locking said spindle when said spindle is in a rotated position
4 unlatching said latchbolt.

1 Claim 50 (withdrawn): The method according to Claim 49, wherein:

2 in the cylindrical lock apparatus providing step, the provided lock in said
3 handle is key actuable.

1 Claim 51 (withdrawn): The method according to Claim 49, wherein:

2 in the cylindrical lock apparatus providing step, the provided handle is a
3 lever handle.

1 Claim 52 (withdrawn): The method according to Claim 51, further including the
2 steps of:
3 rotating said lever handle to a rotated position to unlatch said latchbolt;
4 and
5 locking said lock in said lever handle in said rotated position of said
6 lever handle.

1 Claim 53 (withdrawn): The method according to Claim 52, further including the
2 step of
3 noting said rotated position of said lever handle as an indication that said
4 latchbolt is unlatched.
